

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tomowaki Takahashi

Art Unit: --

Application No. 10/086,472

Filed: February 28, 2002

For: DUAL IMAGING OPTICAL SYSTEM

Examiner: --

Date: May 6, 2002

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on May 6, 2002 as First Class Mail in an envelope addressed to: BOX NON-FEE AMENDMENT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

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Attorney for Applicant

PRELIMINARY AMENDMENT

Prior to examination, please amend the subject application as follows:

In the claims:

✓  
Please cancel claims 1-19 without prejudice.

✓  
Please add the following new claims:

20. (New) An optical imaging system configured to form an image of an object on a surface, the optical imaging system comprising:  
A  
B  
a catadioptric optical system configured to form an intermediate image of the object; and  
a refractive optical system configured to form an image of the intermediate image on the surface, wherein at least one of the catadioptric optical system and the refractive optical system includes an aspheric optical surface. → 112, 1<sup>st</sup>

Sub  
C2  
21. (New) The optical imaging system of claim 20, wherein an image-side numerical aperture (NA) is at least 0.6. (0.6 circled) 112, 1<sup>st</sup>

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